Positions Available

Cell

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PUBLISHING DATE	DEADLINE
September 8, 1995	August 11, 1995
September 25, 1995	August 25, 1995
October 6, 1995	September 8, 1995
October 20, 1995	September 22, 1995
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November 17, 1995	October 20, 1995
December 1, 1995	November 3, 1995
December 15, 1995	November 17, 1995
December 29, 1995	December 1, 1995

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Postdoctoral Fellow/ Research Associate

Applications are invited for a postdoctoral position as an Associate to work in the laboratory of Dr. Merchant, whose current research involves studies of transcription mechanisms of growth in the gastrointestinal tract.

Qualified candidates should possess an M.D., Ph.D., or both, in molecular biology or biochemistry. Proficiency in subcloning, DNA-protein interactions, and cell transfections is highly desirable. See: *Mol. Cell Biol.* 1991; 11:2686-2696, and *J. Biol. Chem.* 1995; 270:6314-6319.

Please forward your curriculum vitae and three letters of recommendation to:

Dr. J. Merchant
University of Michigan
4544 MSRB II 0650
1150 West Medical Center Drive
Ann Arbor, MI 48109

mwheeler@vs6.im.med.umich.edu

EOE

POSTDOCTORAL TRAINEE

Thomas Jefferson University has a postdoctoral trainee position available to work in the areas of immunophilin signal transduction, *Ced3*/ICE-like apoptotic cysteine proteases or steroid hormone receptors. Molecular biological experience preferred. Stipend depends on qualifications and experience. Applicants should send curriculum vitae and direct three letters of recommendation to **Dr. Gerald Litwack, Chairman, Department of Pharmacology, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107.** *Thomas Jefferson University is an equal opportunity employer.*

Positions Available

Faculty Positions in the Center for Gene Therapy

Tenure Track

The Center for Gene Therapy at Baylor College of Medicine is seeking qualified candidates with Ph.D. or M.D. degrees interested in basic and clinical studies of Gene Therapy. Established scientists and new investigators are invited to apply. Appointments will be made at an academic grade appropriate to the experience of the candidate.

The Center wishes to identify scientists capable of pursuing independent study of basic gene transfer technology, vector biology, and host responses to vectors, as well as clinical investigators interested in patient studies of gene therapy efficacy and safety.

All areas of Human Gene Therapy will be considered including but not limited to inherited disease, cancer, cardiovascular disorders, neurological disorders, infectious diseases and gene vaccines.

Interested candidates should submit their curriculum vitae and bibliography, a statement of research goals, 1-3 representative publications, and the names of three references to:

John W. Belmont, M.D., Ph.D.
Chair, Faculty Search Committee
Center for Gene Therapy
Baylor College of Medicine
Room T826
One Baylor Plaza
Houston, TX 77030

Tel: (713) 798-4634
Fax: (713) 798-5386

belmont@bcm.tmc.edu

Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.

Postdoctoral Position
New York University Medical Center

Postdoctoral positions are immediately available to study the process of receptor mediated endocytosis and protein sorting in the African trypanosome *Trypanosoma brucei*.

Projects include biochemical analysis of internalization of macromolecules; molecular manipulation of genes involved in the process of endocytosis; and identification of factors or signals involved in targeting proteins to a specific organelle. Applicants must possess a Ph.D. degree and have experience in molecular genetics and biochemistry.

Please send curriculum vitae and three letters of recommendation to:

Dr. Mary Gwo-Shu Lee
Department of Pathology
New York University Medical Center
550 First Ave.
New York, NY 10016

Fax: (212) 263-8179

VISITING INVESTIGATOR PROGRAM

NATIONAL CENTER FOR
HUMAN GENOME RESEARCH
NATIONAL INSTITUTES OF HEALTH

The Visiting Investigator Program provides tenured or tenure-track faculty level scientists from outside the NIH with the opportunity to spend a 3 - 12 month period at the National Center for Human Genome Research (NCHGR) laboratories and clinics at the NIH. Visiting investigators can use their stay at the NCHGR to learn new technologies, develop research collaborations, or pursue sabbatical research projects. Basic and clinical genetic researchers and social scientists may access the Center's laboratories, core facilities, clinics, and training programs for investigating human genetic disease, including the social implications of genetic research. Partial funding of salary support is available, as well as funding for research related expenses while at the NIH. Project proposals planned for one year are preferred in order to enhance the possibility of accomplishing research objectives. A curriculum vitae and a supporting letter from the candidate's department head (or equivalent individual) must accompany the application. *No incomplete application will be submitted for committee review.* **Applications for the cycle beginning January 2, 1996 must be received by September 1, 1995.**

For application materials and information, contact:

Betty Wolf-Ledbetter, Director
Visiting Investigator Program, NIH/NCHGR,
Building 9, Room 1E106, 9 Memorial Drive
MSC 0950, Bethesda, MD 20892-0950
Fax: 301-402-2440; E-Mail: vip@nchgr.nih.gov

Women and minority candidates are strongly encouraged to apply.

Positions Available

Postdoctoral Positions in Cellular Neurophysiology

The Neurosciences Unit at the Loeb Research Institute, Ottawa Civic Hospital & University of Ottawa, has 1-3 year openings for postdoctorate positions in cellular electrophysiology, to study intrinsic and synaptic properties, transmitter-receptor interactions and signal transduction in CNS neurons regulating pituitary secretion and spinal sympathetic outflow. Requires MD or PhD degree, and experience with in-vitro preparations, current and patch clamp recording techniques.

You will be joining a Neurosciences Program comprised of 8 PIs with expertise in molecular and cellular neurobiology applied to exocytosis, membrane trafficking, signal transduction, ion channel function, post-ischemic neuronal function and survival. Salary range $28,650-$34,500 (Can).

Send or FAX (613-761-5360) curriculum vitae, a short statement of interests and names of three references to:

Dr. Leo Renaud
Director
Neurology/Neurosciences
Ottawa Civic Hospital
1053 Carling Avenue
Ottawa, Ontario
CANADA K1Y 4E9

Postdoctoral Positions

Cell Adhesion-Extracellular Matrix Biology

Washington University School of Medicine

Several Postdoctoral positions are immediately available to study the structure and function of adhesion receptors and extracellular matrix molecules in platelet function and in epithelial differentiation and branching morphogenesis. Recent M.D. and/or Ph.D. degree with experience in cell biology, molecular biology, or biochemistry required.

Respond with CV and two letters of reference to:

Dr. Samuel A. Santoro
Department of Pathology
Box 8118
Washington University
School of Medicine
St. Louis, MO 63110

Tenure-Track or Tenured Position

FOR A DEVELOPMENTAL BIOLOGIST AT THE NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES NATIONAL INSTITUTES OF HEALTH

A position is available in the Laboratory of Reproductive and Developmental Toxicology for an outstanding scientist to initiate an independent program of basic research in the field of developmental biology. Applications are invited from candidates with demonstrated potential for creative research in developmental biology, but priority will be given to applicants studying cellular and molecular mechanisms of mammalian development. In addition to establishing an independent program of basic research, the successful candidate will have the opportunity to interact with investigators studying diverse problems in the fields of reproductive biology, developmental toxicology, hormone mechanisms, signal transduction, cell growth and differentiation, apoptosis, gene regulation and cancer biology.

Applications from women or members of minority groups are particularly welcome. The position is available to citizens or permanent residents of the United States. Minimum qualifications are a doctoral degree in the biomedical sciences and three years of postdoctoral experience. Salary will be commensurate with the experience and qualifications of the candidate. Interested parties should provide a curriculum vitae with bibliography, a brief statement of research interests, and arrange for three letters of recommendation to be sent before September 1, 1995 to:

Ms. Norma Daye
Human Resource Management Branch (HNV114)
National Institute of Environmental Health Sciences
National Institutes of Health
P. O. Box 12233
Research Triangle Park, NC 27709
(919) 541-7513

NIEHS/NIH is an Equal Opportunity Employer

Positions Available

Tenure-Track And Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institues of Health.

Tenure-Track Positions

Assistant Professor Equivalent

Molecular Mechanisms of Respiratory Diseases
Paul Nettesheim, MD

A position is available to develop an independent research program, supported by intramural funds, in cellular and molecular mechanisms of respiratory biology and diseases. Extensive postdoctoral experience in molecular biology, developmental biology, signal transduction or biochemical mechanisms of inflammation is required. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Laboratory of Pulmonary Pathobiology (OE-89), NIEHS, P.O. Box 12233, MD D2-01, Research Triangle Park, NC 27709.

Molecular and Cell Biology of the Nucleus
Alan P. Wolffe, PhD

Two positions are available for molecular and cell biologists to develop independent research programs in any fundamental nuclear function. These might include chromatin and chromosone dynamics, cell cycle and transcriptional mechanisms, recombination, replication and repair, RNA processing splicing and export. In addition to three letters of recommendation, a two-page statement of research interests and goals should be submitted by October 1, 1995. The successful candidate will be evaluated for tenure within six years. Laboratory of Molecular Embryology (OE-89), NICHD, Building 6, Room B1A-13, 6 CENTER DR MSC 2710, BETHESDA MD 20892-2710.

Postdoctoral Positions

Cell Cycle Regulation
Frank Ruscetti, PhD

A major focus in this laboratory is the cloning and characterization of novel mammalian cell-cycle regulated genes. Applicants must have an interest in cell-cycle regulation and a strong background in protein biochemistry and immunohistochemical methods. Experience in protein purfication, metabolic labeling with orthophosphate and phosphopeptide mapping is preferred. Working knowledge of PCR and basic molecular biological techniques is helpful and must have less than five years of postdoctoral experience. Laboratory of Leukocyte Biology (OE-89), NCI-FCRDC, Building 567, Room 254, Frederick, MD 21702-1201.

Gametogenesis
E. M. Eddy, PhD

Genes with stage-specific expression during spermatogenesis are studied to define intrinsic and extrinsic mechanisms regulating development and function of male gametes. Transgenic mice are used to dissect promoter regions and gene knockout mice to define the roles of gene products in meiotic and post-meiotic processes. A strong background in cell and molecular biology and less than five years of postdoctoral experience is required. Laboratory of Reproductive and Developmental Toxicology (OE-89), NIEHS, Building 101, Room C422B, P.O. Box 12233, Mail Drop C4-01, Research Triangle Park, NC 27709-2233.

Molecular Neurobiology of Aging
Jeffrey M. Chernak, PhD

The regulation of genes associated with Parkinson's disease, Alzheimer's disease, and neurodegeneration during aging are being investigated using *in vitro*, bacterial, viral, cell culture, and animal model/gene therapy systems. Applicants should have laboratory experience in molecular biology, gene regulation and DNA-protein interactions, as well as an interest in neurobiology and aging. Candidates must be US citizens or permanent residents. Laboratory of Cellular and Molecular Biology (OE-89), NIA, Gerontology Research Center, Room 4E15, Hopkins Bayview Research Campus, 4940 Eastern Avenue, Baltimore, MD 21224.

RNA Polymerase Function in *E. coli*
Ding Jun Jin, PhD

Transcription mechanisms in *E. coli* are being studied. Important domains or functions of RNA polymerase (RNAP) will be identified by isolation and characterization of mutant RNAPs that have altered functions in transcription, and comparing the biochemical properties of the wild-type and mutant RNAPs at specific steps in the transcription process. Applicants should have experience in biochemistry, molecular biology and/or genetics. Laboratory of Molecular Biology (OE-89), NCI, Building 37, Room 2E17, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

Additional Opportunities

The NIHEDNET Bulletin Board **POSTDOC** (fellowship positions) and **TENURE** (tenure track positions) conferences are accessed via a modem (***301-402-2221 or 800-358-2221*** with parameters set at ***7,Even,1***) or the Internet using Telnet (***wylbur.cu.nih***) or the World Wide Web (URL: ***telnet://wylbur.cu.nih***). When connected to NIH, key in ***,vt100*** for terminal emulation, ***F5E*** for initials, and ***AJL1*** for account number. To view tenure track positions, ***quit*** the **POSTDOC** conference and ***join*** the **TENURE** conference.

An electronic version of the *Postdoctoral Research Fellowship Opportunities* catalog is accessed via the Internet using either the Gopher Information System (***gopher.nih.gov***) or the World Wide Web (URL: ***http://www.nih.gov***). When connected with Gopher, select ***Grants and Research Information*** and then ***NIH Office of Education***. When connected with WWW, select ***Grants and Contracts*** and then ***NIH Office of Education***. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

To Apply

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

NATIONAL INSTITUTES OF HEALTH

National Institutes Of Health

Office Of Education

The NIH is an Equal Opportunity Employer

Positions Available

Postdoctoral Positions in Molecular Developmental Biology Memorial Sloan-Kettering Cancer Center

Two postdoctoral fellowships are available to study the role of Winged-Helix transcription factors in mammalian development. Our research focuses on the regulation of cell proliferation and cell differentiation by these factors in the brain (Neuron 14, 1141-1152), thymus and kidney. Ph.D. and experience in molecular biology, developmental biology or protein biochemistry is required.

Send curriculum vitae and three references to:

Eseng Lai, M.D., Ph.D.
Cell Biology & Genetics Program
Memorial Sloan-Kettering Cancer Center
Box 83
1275 York Avenue
New York, NY 10021

MSKCC is an Equal Opportunity/ Affirmative Action Employer

Postdoctoral or Associate Research Scientist Positions to Study the Molecular Basis of Cancer College of Physicians & Surgeons Columbia University

Positions available immediately to join interactive research team studying novel genes and monoclonal antibodies involved in oncogenesis and cell differentiation. Current projects include the characterization and functional studies of a novel prostate carcinoma tumor inducing oncogene PTI-1 (see PNAS 92: 6778, 1995), analysis of monoclonal antibodies developed by surface-epitope masking that react with human prostate and breast carcinomas (see JNCI 86: 91, 1994), and studies of novel melanoma differentiation associated (mda) genes identified by subtraction hybridization, including a new ubiquitous tumor suppressor gene (see Oncogene 9: 3397, 1994; Mol. Cell. Diff. 2: 221, 1994; Oncogene 10: 1855, 1995). Expertise in gene cloning, promoter identification and characterization, and current techniques in molecular biology and biochemistry required. Send curriculum vitae and three letters of reference to: **Dr. Paul B. Fisher, Departments of Pathology and Urology, Columbia University, College of Physicians and Surgeons, PH STEM-10, 630 West 168 Street, NY, NY 10032. FAX (212) 305-8177.** *Equal Opportunity Employer*

Washington
WASHINGTON · UNIVERSITY · IN · ST · LOUIS

Postdoctoral Positions School of Medicine

To study the mechanisms by which oncoproteins and tumor suppressor proteins function in transcriptional regulation.

Weintraub, S.J. and Dean, D.C. (1992) A common factor is required for transactivation of different promoter elements by the adenoviral oncogene E1a. *Mol and Cell Biol* **12**:512-517.

Weintraub, S.J., Prater, C., and Dean, D.C. (1992) The retinoblastoma protein causes the E2F site to switch from positive to negative element. *Nature* **358**:259-261.

Weintraub, S.J., Chow, K., Zhang, S., Luo, X.L., He, S., and Dean, D.C. (1995) Mechanism of active transcriptional repression by the retinoblastoma protein. *Nature* **375**:812-815.

Dr. Steven Jay Weintraub
Departments of Internal Medicine and
Cell Biology and Physiology
Washington University School of Medicine
at Washington University Medical Center
Campus Box 8052
660 S. Euclid Avenue
St. Louis, MO 63110-1093

Positions Available

Postdoctoral Position Molecular Motors and Signal Transduction

Friedrich-Miescher Laboratorium der Max-Planck Gesellschaft Tübingen, Germany

A postdoctoral position is available immediately to study the function of motor molecules (unconventional myosins) in membrane dynamics and signal transduction (see EMBO J. 14:697-704 and J. Cell Biol. 129:819-830). A wide range of molecular and cellular approaches are employed. Candidates should have training in molecular/cell biology, biochemistry or microscopy.

Please send curriculum vitae and the names of three references to:

Dr. Martin Bähler
Friedrich-Miescher Laboratorium
der Max-Planck Gesellschaft
Spemannstr. 37-39
D-72076 Tübingen
Germany

Post-Doctoral Position

ROSWELL PARK CANCER INSTITUTE

Department of Human Genetics

To study mammalian RNA metabolism: (1) the mechanism by which nonsense codons alter either nuclear or cytoplasmic RNA metabolism (Proc Natl Acad Sci USA **90**: 482-6; Mol Cell Biol **13**: 1892-1902; Mol Cell Biol **14**: 6317-25; Mol Cell Biol **14**: 8219-28); or (2) interactions between sequences that dictate intron removal and RNA 3' end formation (Genes & Development 8: 363-75; Mol Cell Biol **15**: 488-96). The projects are timely given the interest in the temporal and physical coordination of RNA metabolic events, and will examine aspects of nuclear organization, RNA synthesis and processing, nucleocytoplasmic trafficking and mRNA translation.

Roswell Park Cancer Institute is a National Cancer Institute-designated comprehensive cancer center with research strengths in human/mouse genetics, molecular/cellular biology, pharmacology and immunology.

Buffalo borders Lake Erie, the Niagara and Buffalo Rivers and Canada, and has many cultural and sports-oriented amenities. Send CV and three references to:

Lynne E. Maquat, PhD, Professor
Roswell Park Cancer Institute,
Elm and Carlton Streets, Buffalo, NY 14263

Experience in Molecular Biology required.

Roswell Park Cancer Institute is
M/F/D/V/Affirmative Action/Equal Opportunity Employer.

Faculty Positions in Immunology University of Pennsylvania School of Medicine Institute for Human Gene Therapy

We invite applications for Assistant Professor level tenure-track faculty positions at the University of Pennsylvania School of Medicine. The successful applicant will be a member of the Institute for Human Gene Therapy which emphasizes several primary research areas such as immunology, stem cell biology, cancer biology, genetics, and ion transport.

This individual will be appointed to a faculty position in either a basic science or clinical department, and should have the ability to develop an independent research initiative within our immunology program, a major basic science focus of the Institute. Areas of particular interest include lymphoid development and activation, tolerance induction, programmed cell death, and cytokine gene regulation.

Applicants must have either a Ph.D. or M.D. degree and show exceptional promise of establishing a vigorous, independent research program in an academic setting.

A letter, Curriculum Vitae and a statement of research interests should be addressed to:

James M. Wilson, M.D., Ph.D.
Director
Institute for Human Gene Therapy
University of Pennsylvania
Medical Center
3400 Spruce Street
(M6.40 Maloney)
Philadelphia, PA 19104-4283

Equal Opportunity/Affirmative Action Employer. We encourage minority and women candidates.

Positions Available

University of California, Irvine

The Department of Microbiology and Molecular Genetics and the Department of Medicine at the University of California, Irvine are jointly seeking applicants for faculty positions at the Assistant or Associate Professor level, depending upon qualifications. As part of our ongoing effort to expand our program in molecular pathogenesis, we are soliciting applicants who have demonstrated superior talent and productivity in the area of molecular mechanisms of microbial pathogenesis. His/her previous work should have been judged by peer review to have been scientifically rigorous and clinically relevant, and he/she should have been successful in obtaining sufficient funds from peer-reviewed grants to support these efforts. The latter can include postdoctoral fellowship support for Assistant Professor candidates.

Candidates must have an M.D./Ph.D. or M.D., and board eligibility in Infectious Diseases is required. The successful candidate will be expected to participate in teaching and research conferences in both departments.

Please send curriculum vitae, summary of research interests, and three letters of reference to:

Dr. Rozanne M. Sandri-Goldin
Search Committee Chair
Department of Microbiology and Molecular Genetics
College of Medicine
University of California
Irvine, CA 92717-4025

The University of California at Irvine is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

Postdoctoral Positions in Molecular Biology London Regional Cancer Centre The University of Western Ontario

Trevor Archer: *In vivo* and *in vitro* analysis of transcription factor/chromatin interactions in signal transduction pathways. (Genes & Dev. 9:1366, 1995). **E-mail: tarcher@julian.uwo.ca**

Gabriel DiMattia: Transcription regulation of cell specific gene expression during differentiation of the endocrine cell types. (Mol. Endocrinol. 8:356, 1994). **E-mail: dimattia@julian.uwo.ca**

Geoff Hammond: *In vitro* and transgenic models to study the regulation of expression and function of steroid-binding proteins. (Gene, in press, 1995). **E-mail: ghoward@octrf.on.ca**

Siu-Pok Yee: Regulation of myogenesis during early mouse development. (Genes & Dev. 7:1277, 1993). **E-mail: spyee@julian.uwo.ca**

Please send C.V. and three references to individual Faculty at the **London Regional Cancer Centre, 790 Commissioners Road East, London, Ontario, N6A 4L6 Canada. Fax: 519-685-8616**

POST-DOCTORAL POSITION

Natural Peptide Ligands For Thymic Selection

The University Of Chicago

Immediate position to identify MHC bound peptides which are recognized during the positive and negative selection of CD8+ T cells. Studies will involve the HPLC purification of peptides identified in bio-assays and sequencing using Edman degradation and MS/MS technology. A background in protein/peptide chemistry is essential and knowledge of immunology desirable. Please send curriculum vitae and names of three referees to: Philip G. Ashton-Rickardt, Ph.D., Gwen Knapp Center for Lupus and Immunology Research, The University of Chicago, 924 East 57th Street, 4th Floor, Chicago, IL 60637-5420. Phone: 312/702-4360; FAX: 312/702-1576. AA/EOE.

THE UNIVERSITY OF CHICAGO

Positions Available

POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELL BIOLOGY AT THE NIH

Postdoctoral Fellowships are available in the Genetics and Biochemistry Branch, NIDDK, NIH. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20 minute ride from Washington, D.C.. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees. Physicians may participate in either the NIH Interinstitute Endocrine or the NIH Interinstitute Medical Genetics Training Programs. Current research interests of the staff with positions available include:

- The targeting of proteins to the secretory pathway in both eukaryotes and prokaryotes is being studied using a combination of in vivo and in vitro approaches. Current projects focus on the mechanism of signal sequence recognition, the regulation of protein targeting by a new family of GTPases, and the function of recently discovered prokaryotic homologs of components of the eukaryotic sorting machinery. **(Harris Bernstein)**

- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes, the structure and function of novel triplex DNAs, new methods for gene mapping and cloning (e.g. RARE) and gene targeting in mammalian cells, gene rearrangements in eukaryotes. **(Dan Camerini-Otero)**

- The role of DNA structure in homologous recombination is being investigated. We are studying the kinetics of DNA branch migration and the role of recombination proteins in promoting branch migration. We are also interested in characterizing other enzymes involved in recombination and repair in eukaryotes. **(Peggy Hsieh)**

- Molecular basis of mechanisms involved in hormonal and developmental control of gene expression. The immediate focus is on the transacting factors of the steroid/thyroid hormone receptor gene superfamily. Future work will use homologous recombination to target genes of regulatory nuclear proteins. **(Vera Nikodem)**

- The role(s) of small nucleolar ribonucleoprotein particles (snoRNPs) in pre-rRNA processing in vertebrate and invertebrate model systems is being examined using molecular and biochemical approaches. Current work focuses on the interactions between pre-rRNA and both the RNA and protein components of the snoRNPs. **(Brenda Peculis)**

- Current projects involve gene targeting by homologous recombination to generate mouse models of lysosomal storage diseases, development of gene therapy for treatment of neurodegenerative disorders, and investigation of lysosomal enzyme structure and function. **(Rick Proia)**

- The functional role of a family of neural-specific transcription factors, class III POU domain genes, is being investigated using a combination of molecular and embryological approaches in vertebrate embryos. The regulation of anterior-posterior patterning in the early vertebrate embryo is also under investigation. **(Sheryl Sato)**

Interested candidates should send a letter stating their interests, their curriculum vitae and list of publications, and the names and addresses of three references to:

Dr. R. Daniel Camerini-Otero
Chief, Genetics and Biochemistry Branch
Building 10, Room 9D-15
NATIONAL INSTITUTES OF HEALTH
Bethesda, Maryland 20892
Telephone: 301-496-2710

Postdoctoral Position in Developmental Neurogenetics Penn State

Available immediately to study pattern formation and negative control of cell fate determination in development of the *Drosophila* visual system. Current projects focus on studying mechanisms of eye morphogenesis and an ETS nuclear protein-mediated inhibitory signal transduction. Candidates with strong background in genetics, molecular biology, and developmental biology are encouraged to apply. Experience in *Drosophila* research is preferred. Please send statement of research interests, curriculum vitae, copies of publications, and three references to:

Dr. Z.-C. Lai
Department of Biology
The Pennsylvania State University
208 Mueller Laboratory
University Park, PA 16802
Tel: 814-863-0479 Fax: 814-865-9131
E-mail: zcl1@psuvm.psu.edu

An Affirmative Action/Equal Opportunity Employer, Women and Minorities Encouraged to Apply.

U.T. Southwestern Medical Center

Postdoctoral position available for Ph.D. or M.D. interested in mechanoregulation of cell signaling. Our laboratory is studying fibroblast-collagen matrix interactions to identify signaling pathways activated by cell-matrix contraction and subsequent changes in cell proliferation and gene expression. Salary negotiable.

Interested applicants should send Curriculum Vitae and names of three referees to:

Dr. Fred Grinnell
Department of Cell Biology and Neuroscience
U.T. Southwestern Medical Center
5323 Harry Hines Blvd.
Dallas, TX 75235-9039

An Equal Opportunity/ Affirmative Action Employer

Positions Available

City of Hope

Assistant Research Scientist
City of Hope National Medical Center

The Department of Cell and Tumor Biology of the City of Hope National Medical Center is seeking a Ph.D. with an interest in molecular aspects of carcinogenesis for a tenure track position at the level of Assistant Research Scientist. The successful candidate will be expected to develop an independent research program with preference given to candidates using approaches based in the enzymology and molecular genetics of DNA repair, gene rearrangement, or the maintenance of chromosome integrity. The candidate will also be expected to actively participate in the Molecular Carcinogenesis Program within the Cancer Center at the City of Hope. As an NCI designated Clinical Cancer Center, the City of Hope has excellent facilities for DNA, peptide and RNA synthesis, protein and DNA sequencing, mass spectrometry and molecular modeling. The Center also offers the opportunity for interaction with medical and surgical oncologists including the opportunity to participate in a research training program for Surgical Oncology Fellows and provides access to an extensive solid tumor bank and cancer registry.

Send curriculum vitae and a brief summary of research objectives to:

City of Hope National Medical Center
Human Resources
Attn: SS
1500 East Duarte Road
Duarte, CA 91010-3000

Equal Opportunity Employer

Postdoctoral Position
Center for Blood Research
Harvard Medical School

A postdoctoral position is available beginning as soon as possible to study structure and function of the cytoplasmic region of CD43 (sialophorin, leukosialin) (Shelley et al, PNAS 86:2819, 1989). CD43 is the anti-adhesion molecule prevalent on human blood leukocytes. The immediate work involves construction of cytoplasmic mutants; several functional assays for CD43 and antibodies are on hand.

Experience is required in molecular biology (recombinant DNA techniques) and either protein biochemistry or cell biology or immunology.

Please send C.V., names of references and a letter describing research skills and interests to:

Dr. Eileen Remold-O'Donnell
The Center for Blood Research
800 Huntington Avenue
Boston, MA 02115
FAX (617) 278-3493

Equal Opportunity Employer

CARING TOGETHER

POST-DOCTORAL FELLOW

Bone/Cell/Molecular Biology

Saint Francis Hospital & Medical Center is seeking candidates who have completed a doctoral degree to join our NIH-supported Bone Biology Laboratory.

Interested candidates should send a resume and references to:

Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital & Medical Center, 114 Woodland Street, Hartford, CT 06105-1299.

SAINT FRANCIS Hospital and Medical Center
MOUNT SINAI HOSPITAL
BlueRidge Center

EEO/AA - M/F/D/V Pre-Employment Drug Testing

Positions Available

Postdoctoral Fellows Needed
Molecular Genetics

To work on either of the following:

a.) Mechanisms of recombination, and of activation by recombinogens, in normal and transformed human cells.

b.) Chromosomal mapping and cloning of lifespan-determining genes in *C. elegans*; also, analysis of mutations known to extend lifespan, and their downstream effects.

Please contact Robert J. Shmookler Reis
Departments of Medicine and
Biochemistry/Molecular Biology
Univ. of Arkansas for Medical Sciences
McClellan VA Med.Ctr.–Research 151
4300 W. 7th St., Little Rock, AR 72205
Telephone: 501-661-1202 ext.3894
FAX:501-671-2510; rjreis@life.uams.edu

Conferences and Courses

Symposium on the Neurovirology and Neuroimmunology of Schizophrenia and Bipolar Disorder

Sponsored by the Stanley Neurovirology Laboratory of the Johns Hopkins University School of Medicine and the Theodore and Vada Stanley Foundation

November 3 and 4, 1995
Marriott Hotel at BWI Airport
1743 West Nursery Road
Baltimore, Maryland 21240

The goal of the meeting is to bring together researchers from diverse fields who are interested in the role that infectious agents and the immune response may play in the etiology of schizophrenia and bipolar disorders. Subjects to be discussed include:

- viral models of CNS functional pathology
- the effects of infectious agents on dopamine, serotonin and other neurotransmitters
- viruses as triggers for immune dysfunction leading to psychiatric morbidity
- antiviral properties of antipsychotic drugs and other psychopharmacological aspects
- epidemiological aspects of schizophrenia and bipolar disorder which are consistent with an infectious etiology

Presentations will be brief oral talks and poster sessions. There is no registration fee for this meeting.

Plenary speakers will include:

Krister Kristensson, M.D., Ph.D., Professor of Neuroscience, Karolinska Institute, Stockholm, Sweden

Michael B.A. Oldstone, M.D., Head, Division of Virology, Scripps Research Institute, La Jolla, California

To obtain registration forms please contact Ann Cusic either by phone, fax or E-mail at the following:

Phone: 410-955-3271
Fax: 410-614-1491
E-mail: acusic@welchlink. welch.jhu.edu

Conferences and Courses

AACR SPECIAL CONFERENCE IN CANCER RESEARCH

Cancer Susceptibility Genes and Molecular Carcinogenesis

February 19-25, 1996
The Keystone Resort, Keystone, Colorado

CONFERENCE CHAIRPERSONS

Allan Balmain / Glasgow, Scotland
Curtis C. Harris / Bethesda, MD
Kenneth Olden / Research Triangle Park, NC

SCIENTIFIC PROGRAM

Keynote Address
Harold Varmus / Bethesda, MD

Genetic Susceptibility of Animal Models - Inbred Strains
William F. Dove / Madison, WI
Norman R. Drinkwater / Madison, WI
Cheryl Lyn Walker / Smithville, TX
Peter Demant / Amsterdam, The Netherlands

Genetic Susceptibility of Animal Models - Transgenic and Knockout
Douglas Hanahan / San Francisco, CA
Tyler E. Jacks / Cambridge, MA
Michael P. Rosenberg / Research Triangle Park, NC

Genetic Susceptibility of Humans - Xenobiotic Metabolism
Frank J. Gonzalez / Bethesda, MD
Fred F. Kadlubar / Jefferson, AR
Peter G. Shields / Bethesda, MD
C. Roland Wolf / Dundee, Scotland

Genetic Susceptibility of Humans - DNA Repair
Isabel Mellon / Lexington, KY
Jan H. Hoeijmakers / Rotterdam, The Netherlands
Richard D. Kolodner / Boston, MA

Genetic Susceptibility of Humans - Tumor Suppressor Genes
David P. Lane / Dundee, Scotland
Louise C. Strong / Houston, TX
Curtis C. Harris / Bethesda, MD

Senescence and Terminal Differentiation
J. Carl Barrett / Research Triangle Park, NC
Carol W. Greider / Cold Springs Harbor, NY
Jennifer A. Pietenpol / Nashville, TN
Harold L. Moses / Nashville, TN

Apoptosis
Tona M. Gilmer / Research Triangle Park, NC
Judith Campisi / Berkeley, CA
Michael B. Kastan / Baltimore, MD
Eileen White / Piscataway, NJ
Scott W. Lowe / Cambridge, MA

Molecular Carcinogenesis in Animal Models and Humans - Skin
Allan Balmain / Glasgow, Scotland
Douglas E. Brash / New Haven, CT

Molecular Carcinogenesis in Animal Models and Humans - Liver and Breast
Henry C. Pitot / Madison, WI
Xin W. Wang / Bethesda, MD
Roger W. Wiseman / Research Triangle Park, NC
Mary-Claire King / Seattle, WA

Molecular Carcinogenesis in Animal Models and Humans - Brain
Terry A. Van Dyke / Chapel Hill, NC
Paul Kleihues / Lyon, France

Applicants are encouraged to submit abstracts for poster presentation.

Application deadline: November 3, 1995

Information and Application Forms

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